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	16. Model predictive control of shell benchmark process Amjad, S.; Al-Duwaish, H.N.; Electronics, Circuits and Systems, 2003. ICECS 2003. Proceedings of the 2003 10th IEEE Internat Volume 2, 14-17 Dec. 2003 Page(s):655 - 658 Vol.2 Digital Object Identifier 10.1109/ICECS.2003.1301870 AbstractPlus Full Text: PDF(1380 KB) IEEE CNF Rights and Permissions
<u> </u>	17. Nonlinear model reduction and control of high-purity distillation columns Kumar, A.; Daoutidis, P.; American Control Conference. 1999. Proceedings of the 1999 Volume 3, 2-4 June 1999 Page(s):2057 - 2061 vol.3 Digital Object Identifier 10.1109/ACC.1999.786281 AbstractPlus Full Text: PDF(408 KB) IEEE CNF Rights and Permissions
	18. Robust multivariable feedback design for an extractive distillation column Nataraj, P.S.V.; Control, 1994. Control '94. Volume 2 International Conference on 21-24 Mar 1994 Page(s):1554 - 1559 vol.2 AbstractPlus Full Text: PDF(268 KB) IEE CNF

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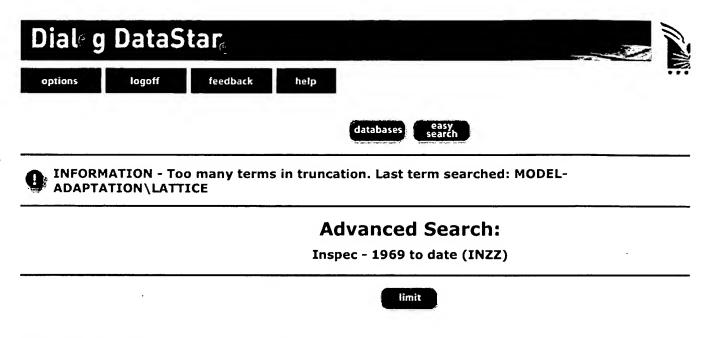
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·	Digital Object Identifier 10.1109/ACC.2001.945884 AbstractPlus Full Text: PDF(408 KB) IEEE CNF Rights and Permissions
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	5. Two-point cascade control of binary distillation columns Castellanos-Sahagun, E.; Alvarez, J.; American Control Conference. 2003. Proceedings of the 2003 Volume 1, 4-6 June 2003 Page(s):373 - 378 vol.1 Digital Object Identifier 10.1109/ACC.2003.1238975 AbstractPlus Full Text: PDE(406 KB) IEEE CNF

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12. An Introduction to the virtual process visualization method for supervisory control Wittenberg, C.; Systems. Man and Cybernetics, 2003. IEEE International Conference on Volume 3, 5-8 Oct. 2003 Page(s):2436 - 2443 vol.3 AbstractPlus Full Text: PDF(686 KB) IEEE CNF Rights and Permissions
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Waveform relaxation for concurrent dynamic simulation of distillation columns

A. Skjellum, M. Morari, S. Nattisson

January 1989 Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2

Publisher: ACM Press

Full text available: pdf(878.57 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The need for cost-effective, high-speed computing is essential in many aspects of chemical engineering practice, notably for the simulation of large-scale dynamic systems. The arrival of powerful, highly concurrent message-passing multicomputers potentially offers such economical large-scale computing capability [13,14]. Development of appropriate, efficient algorithms which realize this potential must therefore become an important area of ongoing research and development in chemical engine ...

Sparse matrix methods for chemical process separation calculations on supercomputers

S. E. Zitney

December 1992 Proceedings of the 1992 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society Press

Full text available: pdf(938.87 KB) Additional Information: full citation, references, citings, index terms

3 Parallel triangular decompositions of an oil refining simulation

Xiaodong Zhang

August 1993 Proceedings of the 7th international conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(856.77 KB) Additional Information: full citation, abstract, references, index terms

One important process in oil refining is to separate the crude oil into various oil products. This process is called distillation. In designing a complex distillation column, a large computer simulation is conducted. This paper presents our experience with parallelizing an oil refining simulation application that computes the composition of the various oil products in designed refining columns operated under a given set of conditions. Mathematical models for the simulation ...

4	Token+constraint systems for tangible interaction with digital information	
	Brygg Ullmer, Hiroshi Ishii, Robert J. K. Jacob	
9	March 2005 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 12 Issue	
	Publisher: ACM Press	
	Full text available: pdf(3.96 MB) Additional Information: full citation, abstract, references, index terms	
	We identify and present a major interaction approach for tangible user interfaces based upon systems of tokens and constraints. In these interfaces, tokens are discrete physical objects which represent digital information. Constraints are confining regions that are mapped to digital operations. These are frequently embodied as structures that mechanically channel how tokens can be manipulated, often limiting their movement to a single degree of freedom. Placing and manipulating tokens within sys	
	Keywords: Tangible interfaces, token+constraint interfaces	
5 �	Visualization of parallel and distributed systems: Visualizing structural properties of irregular parallel computations Wolfgang Blochinger, Michael Kaufmann, Martin Siebenhaller May 2005 Proceedings of the 2005 ACM symposium on Software visualization	
	Publisher: ACM Press	
	Full text available: pdf(403.47 KB) Additional Information: full citation, abstract, references, index terms	
	An important task in parallel programming is the appropriate distribution of work on the processors. This distribution is usually dynamically changing and hard to predict, further it is very sensitive to the change of parameters. Even with advanced analysis tools this problem is hard to be solved. We propose to visualize the program structure as it changes over the execution time. We therefore present a new automatic layout algorithm based on Sugiyama's framework, which enables the user to detec	
	Keywords: interactive performance tuning, visualization of parallel execution graphs	
6	Using meta-level compilation to check FLASH protocol code Andy Chou, Benjamin Chelf, Dawson Engler, Mark Heinrich November 2000 ACM SIGOPS Operating Systems Review, ACM SIGARCH Computer Architecture News, Proceedings of the ninth international conference on Architectural support for programming languages and operating systems ASPLOS-IX, Volume 34, 28 Issue 5, 5 Publisher: ACM Press	
	Full text available: pdf(297.02 KB) Additional Information: full citation, abstract, references, citings, index terms	
	Building systems such as OS kernels and embedded software is difficult. An important source of this difficulty is the numerous rules they must obey: interrupts cannot be disabled for ~too long," global variables must be protected by locks, user pointers passed to OS code must be checked for safety before use, etc. A single violation can crash the system, yet typically these invariants are unchecked, existing only on paper or in the implementor's mind. This paper is a case study in how system impl	
7	Using meta-level compilation to check FLASH protocol code	_
	Andy Chou, Benjamin Chelf, Dawson Engler, Mark Heinrich	
	November 2000 ACM SIGPLAN Notices, Volume 35 Issue 11	
	Publisher: ACM Press	

	Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, index terms	
	Building systems such as OS kernels and embedded software is difficult. An important source of this difficulty is the numerous rules they must obey: interrupts cannot be disabled for "too long," global variables must be protected by locks, user pointers passed to OS code must be checked for safety before use, etc. A single violation can crash the system, yet typically these invariants are unchecked, existing only on paper or in the implementor's mind. This paper is a case study in how system impl	
•	Integrating the document object model with hyperlinks for enhanced topic distillation and information extraction Soumen Chakrabarti April 2001 Proceedings of the 10th international conference on World Wide Web	
	Publisher: ACM Press	
	Full text available: pdf(369.63 KB) Additional Information: full citation, references, citings, index terms	
	Keywords : document object model, minimum description length principle, segmentation, topic distillation E-speak e-xplained	
	Alan H. Karp	
•	July 2003 Communications of the ACM, Volume 46 Issue 7	
	Publisher: ACM Press	
	Full text available: pdf(181.92 KB) Additional Information: full citation, abstract, references, citings, index terms	
	HP's e-speak is an open software platform designed to simplify Internet-based e-services by making it easier for unrelated Web sites to work together.	
	Robots, after all	
•	Hans Moravec October 2003 Communications of the ACM, Volume 46 Issue 10	
	Publisher: ACM Press	
	Full text available: pdf(318.69 KB) Additional Information: full citation, abstract, references, index terms	
	Artificial minds for mechanical bodies capable of autonomous manual work finally seem within reach.	

11 Enhanced topic distillation using text, markup tags, and hyperlinks Soumen Chakrabarti, Mukul Joshi, Vivek Tawde

September 2001 Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

10

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(386.22 KB) terms

Topic distillation is the analysis of hyperlink graph structure to identify mutually reinforcing authorities (popular pages) and hubs (comprehensive lists of links to authorities). Topic distillation is becoming common in Web search engines, but the best-known algorithms model the Web graph at a coarse grain, with whole pages as single nodes. Such models may lose vital details in the markup tag structure of the pages, and thus lead to a tightly linked irr ...

12	Modelling activities in information systems using the coordination language MANIFOLD George A. Papadopoulos, Farhad Arbab February 1998 Proceedings of the 1998 ACM symposium on Applied Computing Publisher: ACM Press Full text available: pdf(964.38 KB) Additional Information: full citation, references, index terms	
	Keywords : collaborative computing environments, coordination languages and moels, design of distributed and open information systems, modelling information systems	
13 ②	Adapting to network and client variability via on-demand dynamic distillation Armando Fox, Steven D. Gribble, Eric A. Brewer, Elan Amir October 1996 ACM SIGOPS Operating Systems Review, ACM SIGPLAN Notices, Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII, Volume 30, 31 Issue 5, 9	
	Publisher: ACM Press Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, citings, index terms	
	The explosive growth of the Internet and the proliferation of smart cellular phones and handheld wireless devices is widening an already large gap between Internet clients. Clients vary in their hardware resources, software sophistication, and quality of connectivity, yet server support for client variation ranges from relatively poor to none at all. In this paper we introduce some design principles that we believe are fundamental to providing "meaningful" Internet access for the entire range of	
14	A data modeling approach for office information systems Simon Gibbs, Dionysis Tsichritzis	
	October 1983 ACM Transactions on Information Systems (TOIS), Volume 1 Issue 4 Publisher: ACM Press	
	Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms	
15	Distilling dialogues: a method using natural dialogue corpora for dialogue systems development Arne Jönsson, Nils Dahlbäck April 2000 Proceedings of the sixth conference on Applied natural language	
16	The ITHACA office object model: modeling and implementation James S. K. Ang, D. W. Conrath	

Results (page 1): distillation column<sentence>separation and separation<paragraph>pro... Page 4 of 6

③	November 1993 ACM SIGMIS Database, Volume 24 Issue 4 Publisher: ACM Press	
	Full text available: pdf(840.73 KB) Additional Information: full citation, abstract, index terms	
	This paper presents an object-oriented approach to modeling an office, including both its content and the activities that are carried out within it. This is a part of a larger research effortthe ITHACA Project (Integrated Toolkit for Highly Advanced Computer Applications). Its purpose is to provide software engineers and application programmers with a generic framework within which to develop large, distributed office support systems. The set of interrelated models contains: the active object	
17	Poster Session: Web-centric language models	
\rightarrow	Jaap Kamps October 2005 Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05 Publisher: ACM Press	
	Full text available: pdf(158.62 KB) Additional Information: full citation, abstract, references, index terms	
	We investigate language models for informational and navigational web search. Retrieval on the web is a task that differs substantially from ordinary ad hoc retrieval. We perform an analysis of prior probability of relevance for a wide range of non-content features, shedding further light on the importance of non-content features for web retrieval. This directly explains the success or failure of various techniques, e.g., why the link topology is particularly helpful to single out important site	
	Keywords: language models, non-content information, priors, web retrieval	
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_	A simulation model of GECOS III	
18	A simulation model of GECOS III	
_	A simulation model of GECOS III Kenneth E. Norland, William C. Bulgren	
_	A simulation model of GECOS III Kenneth E. Norland, William C. Bulgren January 1971 Proceedings of the 1971 26th annual conference	
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_	A simulation model of GECOS III Kenneth E. Norland, William C. Bulgren January 1971 Proceedings of the 1971 26th annual conference Publisher: ACM Press Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings, index terms A simulation model for a multiprogramming operating system has been devised and programmed in Simscript. Essential elements of the environment have been included such as job arrival rate, maximum number of jobs, the operating system overhead and peripheral and core allocation. Some allowances are made for time-sharing, as well as remote and normal batch jobs. The model is patterned basically after GECOS III, on the H-	
_	A simulation model of GECOS III Kenneth E. Norland, William C. Bulgren January 1971 Proceedings of the 1971 26th annual conference Publisher: ACM Press Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings, index terms A simulation model for a multiprogramming operating system has been devised and programmed in Simscript. Essential elements of the environment have been included such as job arrival rate, maximum number of jobs, the operating system overhead and peripheral and core allocation. Some allowances are made for time-sharing, as well as remote and normal batch jobs. The model is patterned basically after GECOS III, on the H-600 line computer. The hardware constraints considered when necessary are	
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Office information models are used to represent the operations and information structure of Office Information Systems. This paper determines requirements for these models by examining the functionality of Office Information Systems. The paper then discusses the representation of 'office objects' and their associated operations of filing, mailing and

formatting. This representation is based upon concepts from the field of semantic data modelling.

Manufacturing applications: Manufacturing modeling architectures: architectural concepts for a system simulator for concurrent prototypng of equipment and controls K. Preston White, Ryan Fritz, Stephen Horvath, Carlos Orellana, Jonathan Wohlers, Richard G. Fairbrother, William S. Terry

December 2002 Proceedings of the 34th conference on Winter simulation: exploring new frontiers

Publisher: Winter Simulation Conference

Full text available: pdf(234.87 KB) Additional Information: full citation, abstract, references

AutoMod® is a leading discrete-event simulation package widely applied in the modeling and analysis of distribution systems. Included in the AutoMod software suite is the Model Communications Module (MCM), which allows an executing simulation to open socket connections and to send and receive messages via TCP/IP network protocol. In this paper we report on a pilot study which explores the functionality of the MCM. In particular, we develop and implement an architecture that can be used to ...

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The application of the substitute objective function minimization for solving multi- stage separation problems • ARTICLE Mathematical and Computer Modelling, Volume 16, Issue 5, May 1992, Pages 13-26 Stanislaw Wasylkiewicz Abstract
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1. 🖂	An improved method for nonlinear model reduction using balancing of empirical
1. 1_1	gramians • ARTICLE
	Computers & Chemical Engineering, Volume 26, Issue 10, 15 October 2002,
	Pages 1379-1397 Juergen Hahn and Thomas F. Edgar
	SummaryPlus Full Text + Links PDF (378 K)
2. 🔲	Reactive separations: more ways to skin a cat • ARTICLE
· autour	Chemical Engineering Science, Volume 57, Issue 9, May 2002, Pages 1491-1504
	R. Krishna SummaryPlus Full Text + Links PDF (789 K)
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3. 🗀	Modelling reactive distillation • REVIEW ARTICLE Chemical Engineering Science, Volume 55, Issue 22, November 2000, Pages 5183-5229
	R. Taylor and R. Krishna
	SummaryPlus Full Text + Links PDF (2056 K)
4. 🗀	CRACKER — a PC based simulator for industrial cracking furnaces • ARTICLE
	Computers & Chemical Engineering, Volume 24, Issues 2-7, 15 July 2000, Pages 1523-1578
	Eunjung Joo, Kihong Lee, Moonyong Lee and Sunwon Park
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	stage separation problems • ARTICLE
	Mathematical and Computer Modelling, Volume 16, Issue 5, May 1992, Pages 13-26 Stanislaw Wasylkiewicz
	Abstract
6. 🗍	Stochastic programming in process south size A tour start of the ATRIX D
	Stochastic programming in process synthesis: A two-stage model with MINLP recourse for multiperiod heat-integrated distillation sequences • ARTICLE
	Computers & Chemical Engineering, Volume 16, Issue 3, March 1992, Pages 189-210

G. E. Paules, IV and C. A. Floudas Abstract

7.
Extension of the simultaneous-solution and inside-outside algorithms to distillation with chemical reactions • ARTICLE

Computers & Chemical Engineering, Volume 15, Issue 5, May 1991, Pages 337-348
J. Simandl and W. Y. Svrcek

<u>Abstract</u>

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2. 🗖	The Maxwell-Stefan approach to mass transfer • REVIEW ARTICLE Chemical Engineering Science, Volume 52, Issue 6, March 1997, Pages 861-911 R. Krishna and J. A. Wesselingh Abstract Abstract + References PDF (4190 K)
3. 🗀	On order reduction in hydrogen isotope distillation models • ARTICLE Fusion Engineering and Design, Volume 28, 2 March 1995, Pages 406-412 D. A Sarigiannis Abstract Abstract + References PDF (512 K)
4. 🗖	A semi-rigorous dynamic distillation model for on-line optimization and nonlinear control • ARTICLE Journal of Process Control, Volume 3, Issue 3, 1993, Pages 153-160 Saibal Ganguly and Deoki N. Saraf Abstract
5. 🗀	Order reduction of rigorous dynamic models for distillation columns • ARTICLE Computers & Chemical Engineering, Volume 17, Supplement 1, 1993, Pages 311-316 HE. Musch and M. Steiner Abstract
6. 🗍	Quality control of binary distillation columns via nonlinear aggregated models • ARTICLE Automatica, Volume 27, Issue 3, May 1991, Pages 463-480 J. Lévine and P. Rouchon

Abstract

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1. Control of binary sidestream distillation columns with varying control by Papastathopoulou, Heleni S., Ph.D., Lehigh University, 1990, 262 page 1997.	ol objectives and constraints ges; AAT 9030343
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2. <u>DEVELOPMENT OF A NONEQUILIBRIUM STAGE MODEL AND ITS AN SEPARATION PROCESS SIMULATION AND DESIGN</u> by KRISHNAMURTHY, R., Ph.D., Clarkson University, 1984, 221 pages	
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	L7	L6 and (separation with process) and (distillation with trays)	68
	L6	(distillation column same separation) and model\$ and trays	233
	L5	L4 and (temperature? same trays)	21
	L4	distillation column and (separation with process) and model and trays	225
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File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050222474

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050222474 A1

TITLE: Oxygenated hydrocarbon compositions and method for recovering the

compositions

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

<u>Cheng, Minquan</u> Evansville IN US Nicoletti, Michael Peter Houston TX US

US-CL-CURRENT: <u>585/15</u>; 585/809

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 2. Document ID: US 20050091020 A1

L3: Entry 2 of 7 File: PGPB Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050091020

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050091020 A1

TITLE: High fidelity low-order modeling for multi-staged separation processes based

upon the compartmental approach

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Cheng, Wai Biu Willoughby OH US

US-CL-CURRENT: <u>703/12</u>; <u>700/273</u>

Record List Display Page 2 of 4

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 3. Document ID: US 20030220187 A1

L3: Entry 3 of 7

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030220187

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030220187 A1

TITLE: Composite for catalytic distillation and its preparation

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yang, Yuanyi	Beijing		CN
Li, Dongfeng	Beijing		CN
Dai, Wei	Beijing		CN
Chen, Shuo	Beijing		CN
Wang, Guoqing	Beijing		CN
Liao, Lihua	Beijing		CN
<pre>Cheng, Jianmin</pre>	Beijing		CN
Guo, Yanlai	Beijing		CN
Peng, Hui	Beijing		CN

US-CL-CURRENT: 502/60; 502/159, 502/325, 502/344, 585/250, 585/446

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De

☐ 4. Document ID: US 20030130555 A1

L3: Entry 4 of 7

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030130555

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030130555 A1

TITLE: Oxygenated hydrocarbon compositions and method for recovering the

compositions

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

<u>Cheng, Minquan</u> Evansville IN US Nicoletti, Michael Peter Houston TX US

US-CL-CURRENT: <u>585/804</u>; <u>585/638</u>, <u>585/639</u>, <u>585/640</u>, <u>585/809</u>

Record List Display Page 3 of 4

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 5. Document ID: US 20030045655 A1

L3: Entry 5 of 7

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030045655

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030045655 A1

TITLE: PROCESS OF REMOVING CONTAMINANTS FROM AN OLEFIN STREAM USING EXTRACTIVE

DISTILLATION

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hendriksen, Dan E.	Phillipsburg	NJ	US
<u>Cheng,</u> Minquan	Evansville	IN	US
Kuechler, Keith H.	Friendswood	TX	US
Lumgair, David R.	Craddockville	VA	US
Nicoletti, Michael P.	Houston	TX	US
Shutt, Richard	Tervuren		BE

US-CL-CURRENT: <u>526</u>/<u>77</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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L3: E	ntry	6 of 7	1				File: US	SPT		May	6,	2003

US-PAT-NO: 6559248

DOCUMENT-IDENTIFIER: US 6559248 B2

TITLE: Process of removing contaminants from an olefin stream using extractive

distillation

DATE-ISSUED: May 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hendriksen; Dan E.	Phillipsburg	NJ		
Cheng; Minquan	Evansville	IN		
Kuechler; Keith H.	Friendswood	TX		
Lumgair; David R.	Craddockville	VA		
Nicoletti; Michael P.	Houston	ΤX		
Shutt; Richard	Tervuren			BE

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US-CL-CURRENT: 526/77; 203/63, 203/66, 203/95, 585/639, 585/836, 585/864, 585/868

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 7. Document ID: US 4743344 A

L3: Entry 7 of 7

File: USPT

May 10, 1988

US-PAT-NO: 4743344

DOCUMENT-IDENTIFIER: US 4743344 A

TITLE: Treatment of wastes from high purity silicon process

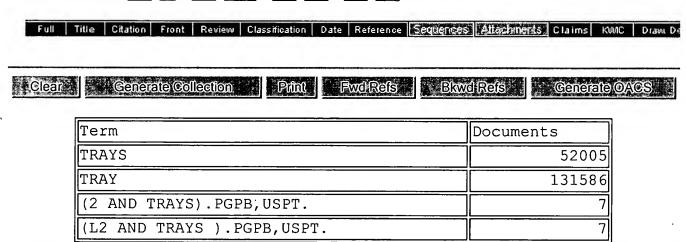
DATE-ISSUED: May 10, 1988

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Breneman; William C. Vancouver WA
Yang; Chi-Cheng Beaverton OR
Henningsen; Gunnar Birmingham AL

US-CL-CURRENT: 203/81; 159/47.3, 423/341, 423/342



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File: PGPB

Jan 5, 2006

PGPUB-DOCUMENT-NUMBER: 20060004229

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060004229 A1

TITLE: Preparation of acrylic acid by heterogeneously catalyzed partial gas phase

oxidation of propylene

PUBLICATION-DATE: January 5, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Dieterle; Martin Mannheim DE Muller-Engel; Klaus Joachim Stutensee DE Hechler; Claus Ludwigshafen DE Hammon; Ulrich Mannheim DE Diefenbacher; Armin Germersheim DE

US-CL-CURRENT: <u>562/527</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Dr

☐ 2. Document ID: US 20050091020 A1

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Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050091020

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050091020 A1

 ${\tt TITLE: \ High \ fidelity \ low-order \ modeling \ for \ multi-staged \ \underline{separation \ processes} \ based}$

upon the compartmental approach

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Cheng, Wai Biu Willoughby OH US

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US-CL-CURRENT: 703/12; 700/273

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 3. Document ID: US 20050054814 A1

L5: Entry 3 of 21

File: PGPB

Mar 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050054814

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050054814 A1

TITLE: Polyester process using a pipe reactor

PUBLICATION-DATE: March 10, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

DeBruin, Bruce Roger Kingsport TN US

US-CL-CURRENT: <u>528/308.1</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 4. Document ID: US 20040230025 A1

L5: Entry 4 of 21

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040230025

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040230025 A1

TITLE: Polyester process using a pipe reactor

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

DeBruin, Bruce Roger Kingsport TN US

US-CL-CURRENT: <u>528/271</u>; <u>528/308.1</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 5. Document ID: US 20040182786 A1

L5: Entry 5 of 21 File: PGPB Sep 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040182786

PGPUB-FILING-TYPE: new

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DOCUMENT-IDENTIFIER: US 20040182786 A1

TITLE: Purification of fluid compounds utilizing a distillation - membrane

separation process

PUBLICATION-DATE: September 23, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Colling, Craig W. Warrenville ILUS Huff, George A. JR. Naperville ILUS Pietsch, Stephen J. Naperville ILUS

US-CL-CURRENT: 210/640; 210/321.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De

☐ 6. Document ID: US 20040044170 A1

L5: Entry 6 of 21 File: PGPB Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040044170

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040044170 A1

TITLE: Polyester process using a pipe reactor

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

DeBruin, Bruce Roger Kingsport TN US

US-CL-CURRENT: <u>528/272</u>; <u>422/129</u>, <u>528/300</u>, <u>528/308.1</u>, <u>528/308.3</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVVIC	Draw De

☐ 7. Document ID: US 20020137877 A1

L5: Entry 7 of 21 File: PGPB Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137877

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137877 A1

TITLE: Low cost polyester process using a pipe reactor

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

Record List Display Page 4 of 10

NAME

CITY

STATE

COUNTRY

Debruin, Bruce Roger

Kingsport

TN

US

US-CL-CURRENT: 528/272

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

8. Document ID: US 6906164 B2

L5: Entry 8 of 21

File: USPT

Jun 14, 2005

US-PAT-NO: 6906164

DOCUMENT-IDENTIFIER: US 6906164 B2

TITLE: Polyester process using a pipe reactor

DATE-ISSUED: June 14, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

DeBruin; Bruce Roger

Kingsport

TN

US-CL-CURRENT: <u>528/308.1</u>; <u>425/6</u>, <u>526/64</u>, <u>526/65</u>, <u>526/71</u>, <u>528/308.6</u>

Full Title Citation Front Review Classification Date Reference Sectualities Afficiations Claims KMC Draw De

☐ 9. Document ID: US 6861494 B2

L5: Entry 9 of 21

File: USPT

Mar 1, 2005

US-PAT-NO: 6861494

DOCUMENT-IDENTIFIER: US 6861494 B2

TITLE: Polyester process using a pipe reactor

DATE-ISSUED: March 1, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Debruin; Bruce Roger

Kingsport

TN

US-CL-CURRENT: 528/272; 524/81, 526/64, 526/65, 526/67, 526/71, 528/176, 528/300,

<u>528/301</u>, <u>528/302</u>, <u>528/307</u>, <u>528/308</u>, <u>528/308.6</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 10. Document ID: US 6605190 B1

L5: Entry 10 of 21

File: USPT

Aug 12, 2003

Record List Display Page 5 of 10

US-PAT-NO: 6605190

DOCUMENT-IDENTIFIER: US 6605190 B1

TITLE: Staged optimal externally-controlled systems and method thereof

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Salamon; Peter San Diego CA

Andresen; Bjarne Bogeskov Vaerlose DK

Nulton; James Darwin San Diego CA

US-CL-CURRENT: 203/1; 202/160, 202/206, 203/100, 203/2, 203/3, 203/DIG.4

Full Title Citation Front Review Classification Date Reference

☐ 11. Document ID: US 6518465 B2

L5: Entry 11 of 21 File: USPT Feb 11, 2003

US-PAT-NO: 6518465

DOCUMENT-IDENTIFIER: US 6518465 B2

TITLE: Reactive distillation process for hydrolysis of esters

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hoyme; Craig Alan Kingsport TN Holcombe, III; Edwin Franklin Cogan Station PA

US-CL-CURRENT: <u>568/698</u>; <u>562/607</u>, <u>562/608</u>, <u>568/907</u>

Full Title Citation Front Review Classification Date Reference Sequences Citation Claims KMC Draw De

☐ 12. Document ID: US 6088630 A

L5: Entry 12 of 21 File: USPT Jul 11, 2000

US-PAT-NO: 6088630

DOCUMENT-IDENTIFIER: US 6088630 A

TITLE: Automatic control system for unit operation

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Record List Display Page 6 of 10

Cawlfield; David W.

Athens

TN

US-CL-CURRENT: 700/266; 202/160, 203/2, 203/DIG.18, 204/225, 205/337, 700/270

Full Title Citation Front Review Classification Date Reference

☐ 13. Document ID: US 6033635 A

L5: Entry 13 of 21

File: USPT

Mar 7, 2000

US-PAT-NO: 6033635

DOCUMENT-IDENTIFIER: US 6033635 A

** See image for Certificate of Correction **

TITLE: Method and system for bisphenol a production using water

DATE-ISSUED: March 7, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Gammill; Ben

Austin

TX

78702

US-CL-CURRENT: 422/245.1

Full Title Citation Front Review Classification Date Reference Citation (Claims KVMC) Draw De

☐ 14. Document ID: US 5959158 A

L5: Entry 14 of 21

File: USPT

Sep 28, 1999

US-PAT-NO: 5959158

DOCUMENT-IDENTIFIER: US 5959158 A

TITLE: Method and system for bisphenol a production using water

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Gammill; Ben

Austin

TX

78702

US-CL-CURRENT: <u>568/718</u>; <u>568/716</u>, <u>568/717</u>, <u>568/722</u>

Full Title Citation Front Review Classification Date Reference Sequences Sharkfrence Claims KMC Draw De

☐ 15. Document ID: US 5874644 A

L5: Entry 15 of 21

File: USPT

Feb 23, 1999

Record List Display Page 7 of 10

US-PAT-NO: 5874644

DOCUMENT-IDENTIFIER: US 5874644 A

** See image for Certificate of Correction **

TITLE: Method and system for bisphenol a production using controlled turbulence

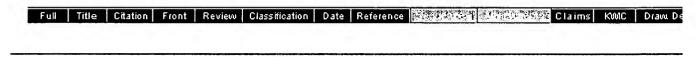
DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Gammill; Ben Austin TX 78702

US-CL-CURRENT: 568/724; 568/722, 568/727, 568/728



☐ 16. Document ID: US 5784538 A

L5: Entry 16 of 21 File: USPT

Jul 21, 1998

US-PAT-NO: 5784538

DOCUMENT-IDENTIFIER: US 5784538 A

** See image for Certificate of Correction **

 ${\tt TITLE:}$ ${\tt \underline{Process}}$ and apparatus for predicting and controlling flood and carryover

conditions in a separation column

DATE-ISSUED: July 21, 1998

INVENTOR-INFORMATION:

NAME · CITY STATE ZIP CODE COUNTRY

Dzyacky; George E. St. John IN 46373

US-CL-CURRENT: 706/45

Full	Title	Citation	Front	Review	Classification	Date	Reference	STORING CAS	Alsalinells.	Claims	KWIC	Draw De

☐ 17. Document ID: US 5532389 A

L5: Entry 17 of 21 File: USPT Jul 2, 1996

US-PAT-NO: 5532389

DOCUMENT-IDENTIFIER: US 5532389 A

TITLE: Process for preparing alkylene oxides

DATE-ISSUED: July 2, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Trent; David L. Lake Jackson TX

Record List Display Page 8 of 10

Quarderer; George J. Midland MI Bargeron; Kim G. Midland MI Greminger; Douglas C. Midland MΙ Koranek; David J. Lake Jackson TXStewart; Erik J. Brazoria ΤX Swisher: Curtis N. Lake Jackson TX Tirtowidjojo; Cheryl A. Lake Jackson ΤX Tirtowidjojo; Danil Lake Jackson TX

US-CL-CURRENT: <u>549/522</u>; <u>423/473</u>, <u>423/474</u>, <u>549/521</u>, <u>568/847</u>, <u>568/850</u>

Full Title Citation Front Review Classification Date Reference

☐ 18. Document ID: US 4902385 A

L5: Entry 18 of 21 File: USPT Feb 20, 1990

US-PAT-NO: 4902385

DOCUMENT-IDENTIFIER: US 4902385 A

TITLE: Process for the purifying distillation of crude sec-butyl alcohol

DATE-ISSUED: February 20, 1990

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Osterburg; Gunther Rheurdt DE

US-CL-CURRENT: 203/96; 203/18, 203/2, 203/39, 203/46, 203/83, 203/85, 203/97,

568/895, 568/913

Full Title Citation Front Review Classification Date Reference Devices Alternation Claims KWIC Draw De

☐ 19. Document ID: US 4544452 A

L5: Entry 19 of 21 File: USPT Oct 1, 1985

US-PAT-NO: 4544452

DOCUMENT-IDENTIFIER: US 4544452 A

TITLE: Control of a fractional distillation process

DATE-ISSUED: October 1, 1985

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Halliday; Mary M. Old Ocean TX Jackson; Glen R. Bay City TX

Record List Display Page 9 of 10

US-CL-CURRENT: 203/1; 202/160, 202/206, 203/2, 203/3, 62/628, 700/270, 700/282

Full Title Citation Front Review Classification Date Reference Claims KWIC Draw De

☐ 20. Document ID: US 4526657 A

L5: Entry 20 of 21

File: USPT

Jul 2, 1985

US-PAT-NO: 4526657

DOCUMENT-IDENTIFIER: US 4526657 A

TITLE: Control of a fractional distillation process

DATE-ISSUED: July 2, 1985

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Hobbs; James W.

Sweeny

TX

Halliday; Mary M.

Sweeny

TX

US-CL-CURRENT: 203/3; 196/132, 202/160, 202/206, 203/1, 203/2, 585/809, 700/270,

700/282

Generate Collection Print Fwd Refs	Bkwd Refs Generat
Term	Documents
TRAYS	52005
TRAY	131586
TEMPERATURE?	С
TEMPERATUREA	14
TEMPERATUREC	12
TEMPERATURED	177
TEMPERATUREE	52
TEMPERATUREF	5
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remperaturel	9

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☐ 1. Document ID: US 20050091020 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 6

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050091020

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050091020 A1

TITLE: High fidelity low-order modeling for multi-staged separation processes based

upon the compartmental approach

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Cheng, Wai Biu Willoughby OH US

US-CL-CURRENT: <u>703/12</u>; <u>700/273</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw, De

☐ 2. Document ID: US 6605190 B1

L8: Entry 2 of 6 File: USPT

Aug 12, 2003

US-PAT-NO: 6605190

DOCUMENT-IDENTIFIER: US 6605190 B1

TITLE: Staged optimal externally-controlled systems and method thereof

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Salamon; Peter San Diego CA

Andresen; Bjarne Bogeskov Vaerlose DK

Nulton; James Darwin San Diego CA

US-CL-CURRENT: 203/1; 202/160, 202/206, 203/100, 203/2, 203/3, 203/DIG.4

Full Title Citation Front Review Classification Date Reference Sequences Attackments Claims KMC Draw De

☐ 3. Document ID: US 6088630 A

L8: Entry 3 of 6

File: USPT

Jul 11, 2000

US-PAT-NO: 6088630

DOCUMENT-IDENTIFIER: US 6088630 A

TITLE: Automatic control system for unit operation

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Cawlfield; David W. Athens TN

US-CL-CURRENT: 700/266; 202/160, 203/2, 203/DIG.18, 204/225, 205/337, 700/270

Full Title Citation Front Review Classification Date Reference

☐ 4. Document ID: US 4902385 A

L8: Entry 4 of 6 File: USPT Feb 20, 1990

US-PAT-NO: 4902385

DOCUMENT-IDENTIFIER: US 4902385 A

TITLE: Process for the purifying distillation of crude sec-butyl alcohol

DATE-ISSUED: February 20, 1990

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Osterburg; Gunther Rheurdt DE

US-CL-CURRENT: 203/96; 203/18, 203/2, 203/39, 203/46, 203/83, 203/85, 203/97,

<u>568</u>/895, 568/913

Full Title Citation Front Review Classification Date Reference STRAIL STRAIL Claims KMC Draw De

☐ 5. Document ID: US 4544452 A

L8: Entry 5 of 6 File: USPT Oct 1, 1985

US-PAT-NO: 4544452

DOCUMENT-IDENTIFIER: US 4544452 A

TITLE: Control of a fractional distillation process

DATE-ISSUED: October 1, 1985

Record List Display Page 3 of 4

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Halliday; Mary M.

Old Ocean

ΤX

Jackson; Glen R.

Bay City

ΤX

US-CL-CURRENT: 203/1; 202/160, 202/206, 203/2, 203/3, 62/628, 700/270, 700/282

Full Title Citation Front Review Classification Date Reference Technology (Section 1998) Claims KWIC Draws De

☐ 6. Document ID: US 4526657 A

L8: Entry 6 of 6

File: USPT

Jul 2, 1985

US-PAT-NO: 4526657

DOCUMENT-IDENTIFIER: US 4526657 A

TITLE: Control of a fractional distillation process

DATE-ISSUED: July 2, 1985

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Hobbs; James W.

Sweeny

TX

Halliday; Mary M.

Sweeny TX

US-CL-CURRENT: 203/3; 196/132, 202/160, 202/206, 203/1, 203/2, 585/809, 700/270,

<u>700/282</u>

Term	Documents
TRAYS	52005
TRAY	131586
TEMPERATURE?	C
TEMPERATUREA	14
TEMPERATUREC	12
TEMPERATURED	177
TEMPERATUREE	52
TEMPERATUREF	5
TEMPERATUREH	3
remperaturei	1
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